

EQUIPMENT SPECIFICATION - REVERSE OSMOSIS SYSTEM W/ DUPLEX COMPONENTS PROVIDE AS INDICATED A FACTORY ASSEMBLED REVERSE OSMOSIS (RO) SYSTEM SHIPPED FOR EASE OF INSTALLATION AND START UP. THE SYSTEM SHALL BE OF AN APPROVED DESIGN AS FABRICATED BY A MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF WATER TREATMENT EQUIPMENT. ALL EQUIPMENT AND MATERIAL SHALL BE SUPPLIED PER THE SPECIFICATIONS AS INTENDED FOR A COMPLETE AND OPERATIONAL SYSTEM. QUALIFIED MANUFACTURERS OF WATER CONDITIONING EQUIPMENT SHALL BE ENGAGED IN THE MANUFACTURE OF THIS TYPE OF EQUIPMENT FOR A PERIOD OF NOT LESS THAN (10) YEARS. DESIGN PARAMETERS GPD (RO MAKE-UP RATE; NOMINAL RATING) DESIGN SYSTEM FLOW GPM AT 40 PSIG DISCHARGE PRESSURE (DISTRIBUTION TO SERVICE) DAILY HOURS OF WATER DEMAND <u>12-24</u> HOURS / DAY OPERATING WATER TEMPERATURE RANGE 55-77 ° ELECTRICAL REQUIREMENTS 120VAC, 1-PH, 60 HZ.

DESIRED STORAGE CAPACITY GAL. (ATMOSPHERIC TANK) THE RO ELEMENTS SHALL BE THIN-FILM COMPOSITE (TFC), 2.5" DIAMETER WITH AN FRP OVERWRAP, ANTI-TELESCOPING DEVICE AND U-CUP BRINE SEAL. MEMBRANE LENGTH SHALL BE 21". THE DESIGN SALT REJECTION SHALL BE 98% BASED ON 2000-PPM WATER AND 225 PSIG AT 77 DEGREES F.

SPACE ALLOWANCE (LXWXH) 204-IN X 30-IN X 83-IN (INCLUDING STORAGE TANK)

2" VENT PIPE TO DRAIN

2" CPVC PIPE —

PIPE TAPPING

THE RO ELEMENT HOUSINGS SHALL BE CONSTRUCTED OF PVC WITH PVC END CAPS. STAINLESS STEEL CLAMPS HOLD THE END CAPS IN PLACE. EACH HOUSING ASSEMBLY IS COMPLETE WITH ONE SET OF O-RINGS AND O-RING LUBRICANT.

THE PUMP SHALL BE A POSITIVE-DISPLACEMENT ROTARY VANE TYPE CONSTRUCTED OF STAINLESS STEEL IT SHALL BE RATED BETWEEN 192 GPH AT A 225 PSIG DISCHARGE PRESSURE. THE PUMP SHALL HAVE 3/8" THREADED SUCTION/DISCHARGE CONNECTIONS. A NEMA STANDARD C-FACED ODP MOTOR SHALL BE DIRECTLY CLAMPED TO THE PUMP. THE MOTOR SHALL BE RATED FOR A 120 VAC, SINGLE-PHASE, 60 HZ. POWER SUPPLY. MOTOR HORSEPOWER SHALL BE 0.50 HPL.

1" CPVC PIPE RO RETURN

WITH ISOLATION

BALL VALVES

rl 1" CPVC PIPE

7 1" CPVC PIPE

OH/ TAPPING AND

FROM RO DISTRIBUTION LINE

RO WATER TO RO WATER STORAGE TANK

REVERSE OSMOSIS PACKAGE DETAIL

CPVC PIPE RO SUPPLY

RM. 3B-110

NTS

TO STEAM GENERATORS

PIPE TAPPING

HIGH LEVEL ALARM #2, WITHIN 3" INCHES OF TOP

WITHIN 6" INCHES OF TOP

HIGH LEVEL ALARM #1,

(LAH) DISENGAGE, WITHIN 10" INCHES OF TOP

RO BUFFER TANK

4 HOUR MIN. STORAGE

LOW LEVEL ALARM,4"

^{LAL})INCHES OF BOTTOM

1" CPVC PIPE TAPPING

PIPED TO DRAIN.

RM. 3B-110

RM. 2B-107

RM. 1B-119

WITH NC SHUTOFF VALVE

LEVEL TRANSMITTER

 $_{ extsf{T}}$)2" NPT FOR CONTROL

STACK. SEE DETAIL

ELECTRICAL CONTROL SYSTEM

THE CONTROL PANEL SHALL CONTAIN AN ILLUMINATED SELECTOR SWITCH INDICATING POWER OFF/ON, STATUS/ALARM LIGHTS, MOTOR STARTER, CONTROL RELAYS, AND TERMINAL BLOCKS FACTORY ASSEMBLED AND TESTED. ENCLOSURE SHALL BE NEMA 4X RATED AND CONSTRUCTED OF FRP. A PRESSURE SWITCH SHALL BE PROVIDED TO SHUT DOWN THE RO PUMP IN A LOW INLET WATER PRESSURE CONDITION. A PRETREATMENT INTERLOCK INDICATOR AND CONTROL SHALL BE PROVIDED TO PREVENT RO OPERATION WHEN PRETREATMENT EQUIPMENT (SUCH AS THE ACTIVATED CARBON FILTER) IS OFF-LINE IN THE BACKWASH OR REGENERATION MODE.

INSTRUMENTATION

SOFTENED WATER TO RO UNIT

DUPLEX

TWO (2) PANEL-MOUNTED FLOWMETERS, ONE PRODUCT AND ONE CONCENTRATE REJECT, SHALL BE INCLUDED. THE PRESSURE GAUGE FOR MEMBRANE SYSTEM PRESSURE SHALL BE 316 STAINLESS STEEL AND LIQUID FILLED.

THE CONCENTRATE REJECT THROTTLE VALVE AND RECYCLE THROTTLE VALVE SHALL BE AN IN-LINE NEEDLE STYLE, CONSTRUCTED OF BRASS AND RATED OVER 300 PSIG. THE AUTOMATIC INLET SHUTOFF VALVE SHALL BE A SOLENOID TYPE, NORMALLY CLOSED, AND CONSTRUCTED OF BRASS.

A CARTRIDGE FILTER HOUSING SHALL BE PROVIDED IN THE INLET LINE AND CONSTRUCTED OF POLYPROPYLENE AND INCLUDE A BUILT-IN PRESSURE RELIEF VALVE. THE FILTER ELEMENT SHALL BE CONSTRUCTED OF SPUN-WOUND POLYPROPYLENE AND RATED AT 5-MICRON NOMINAL.

THE ENTIRE RO MACHINE SHALL BE BUILT ON A SKID AND FRAME CONSTRUCTED OF STRUCTURAL CARBON STEEL AND COMPLETELY ELECTRICALLY WELDED. THE ENTIRE SURFACE SHALL BE SAND-BLASTED AND FINISH PAINTED WITH A SELF-PRIMING, HIGH SOLIDS EPOXY OVERCOAT

THE RO MACHINE INSTRUMENT PACKAGE SHALL ALSO INCLUDE A PANEL-MOUNTED CONDUCTIVITY MONITOR SHALL BE PROVIDED TO MEASURE THE RO PRODUCT QUALITY (IN MICROSIEMENS/CM). THE MONITOR SHALL HAVE A DIGITAL DISPLAY AND AUTOMATIC TEMPERATURE COMPENSATION. THE CONDUCTIVITY PROBE SHALL BE MOUNTED IN THE RO PRODUCT OUTLET LINE AND PRE-WIRED TO THE CONDUCTIVITY MONITOR.

A DUPLEX ALTERNATING MULTI-MEDIA FILTER PROPERLY SIZED FOR THE INLET FLOW RATE OF RO MACHINE SHALL BE PROVIDED FOR THE REMOVAL OF CHLORINE AND PREVENTION OF RO MEMBRANE DAMAGE. MEDIA TANK TO BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (FRP) DESIGNED

WATER WATER

RM. 3B-110

RM. 2B-107

WORK INSTALLED UNDER THIS CONTRACT

RM. 1B-119

2" DRAIN TO FLOOR DRAIN

DEDUCT ALTERNATE #3

- INSTALLED UNDER

SEPARATE CONTRACT.

RM. 2B-124D

2ND FLR.

WALL SLEEVE (TYP)

DEDUCT ALTERNATE #3

INSTALLED UNDER

SEPARATE CONTRACT

, 3RD FLR. LEVEL

 $\langle 24 \rangle$

DEDUCT ALTERNATE #3 - INSTALLED UNDER

SEPARATE CONTRACT

RM. 3B-110 FLOOR DRAIN STACK DEDUCT ALTERNATE #3

→ FILTERED WATER

WATER

DEDUCT ALTERNATE #3

INSTALLED UNDER

SEPARATE CONTRACT.

ILTER FILTER

FOR 150 PSIG. A PRE-PIPED INTERNAL BACKWASH DISTRIBUTOR AND FILTERED WATER COLLECTOR SHALL BE PROVIDED. THE FILTER MEDIA SHALL CONSIST OF A TOP LAYER OF ANTHRACITE, MIDDLE LAYER OF SILICA SAND, AND BOTTOM LAYER OF MULTI-GRADE GARNET. THE FILTER MEDIA SHALL BE PROVIDED IN ONE (1) CUBIC FOOT BAGS AND INSTALLED AT THE JOB-SITE. THE AUTOMATIC BACKWASH CYCLE SHALL BE PERFORMED BY A TOP MOUNTED, PISTON OPERATED CONTROL VALVE WITH A PRE-SIZED DRAIN LINE FLOW CONTROL ORIFICE. AN ATTACHED WATER METER SHALL MONITOR THE VOLUME OF WATER PROCESSED AND AUTOMATICALLY INITIATE FILTER REGENERATION. AN ALTERNATOR CONTROLLER SHALL BE PROVIDED TO PERMIT ONLY ONE VESSEL IN SERVICE AT ANY TIME. THE SECOND TANK IS TO BE IN EITHER REGENERATION OR STAND-BY MODE AT ANY TIME.

A DUPLEX ALTERNATING ACTIVATED CARBON FILTER PROPERLY SIZED FOR THE INLET FLOW RATE OF THE RO MACHINE SHALL BE PROVIDED FOR THE REMOVAL OF CHLORINE AND PREVENTION OF RO MEMBRANE DAMAGE. MEDIA TANK TO BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (FRP) DESIGNED FOR 150 PSIG. A PRE-PIPED INTERNAL BACKWASH DISTRIBUTOR AND FILTERED WATER COLLECTOR SHALL BE PROVIDED. THE FILTER MEDIA SHALL CONSIST OF A 12 X 40 MESH, BITUMINOUS COAL BASED ACTIVATED CARBON. THE FILTER MEDIA SHALL BE PROVIDED IN ONE (1) CUBIC FOOT BAGS AND INSTALLED AT THE JOB-SITE. THE AUTOMATIC BACKWASH CYCLE SHALL BE PERFORMED BY A TOP MOUNTED, PISTON OPERATED CONTROL VALVE WITH A PRE-SIZED DRAIN LINE FLOW CONTROL ORIFICE. AN ATTACHED WATER METER SHALL MONITOR THE VOLUME OF WATER PROCESSED AND AUTOMATICALLY INITIATE FILTER REGENERATION. AN ALTERNATOR CONTROLLER SHALL BE PROVIDED TO PERMIT ONLY ONE VESSEL IN SERVICE AT ANY TIME. THE SECOND TANK IS TO BE IN EITHER REGENERATION OR STAND-BY MODE AT ANY TIME.

A DUPLEX ALTERNATING WATER SOFTENER SYSTEM CONSISTING OF TWO (2) RESIN TANKS AND ONE (1) BRINE TANK SHALL BE PROVIDED AND PROPERLY SIZED FOR THE INLET FLOW RATE OF THE RO MACHÍNE $\langle 7
angle$ AND INCOMING WATER HARDNESS. RESIN TANK TO BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (FRP) DESIGNED FOR 150 PSIG. A PRE-PIPED INTERNAL BACKWASH DISTRIBUTOR AND SOFT WATER COLLECTOR SHALL BE PROVIDED. SOFTENING RESIN SHALL HAVE AN EXCHANGE CAPACITY OF 30,000 GRAINS PER CUBIC FOOT WHEN REGENERATED WITH 15 LBS OF SALT. THE BRINE TANK SHALL BE CONSTRUCTED OF ROTATIONALLY MOLDED POLYETHYLENE WITH SNUG-FITTING COVER. A FLOAT OPERATED, AIR-CHECK BRINE VALVE SHALL BE PROVIDED TO AUTOMATICALLY MEASURE THE CORRECT AMOUNT OF BRINE TO THE SOFTENER UNIT AND RE-FILL WITH FRESH WATER.

THE FREE—STANDING RO PRODUCT WATER STORAGE TANK SHALL BE CONSTRUCTED OF LINEAR POLYETHYLENE IN ONE PIECE, SEAMLESS CONSTRUCTION AND CLOSED-TOP, FLAT BOTTOM DESIGN. THE TANK SHALL HAVE A TOP MANWAY FOR CONVENIENT ACCESS. PVC BULKHEAD FITTINGS SHALL BE INSTALLED FOR HIGH / LOW-LEVEL SWITCHES, RO PERMEATE INLET, RO PERMEATE DISCHARGE, AND DRAIN. A 0.2-MICRON TANK VENT FILTER SHALL BE INSTALLED AT THE TOP HEAD OF THE TANK.

AN ADJUSTABLE FLOAT SWITCH ASSEMBLY SHALL BE PROVIDED FOR THE PRODUCT STORAGE TANK. SWITCHES SHALL SIGNAL START AND STOP TO THE RO UNIT. A SECONDARY ADJUSTABLE FLOAT SWITCH SHALL BE PROVIDED FOR LOW TANK LEVEL, AND SHALL SIGNAL THE SHUT-OFF OF THE REPRESSURIZATION PUMP.

ONE (1) CLOSE COUPLED, SINGLE—STAGE CENTRIFUGAL PUMP, SUITABLE FOR THE DISTRIBUTION OF RO WATER SHALL BE PROVIDED. WETTED COMPONENTS SHALL BE CONSTRUCTED OF 304 STAINLESS STEEL WITH NPT SUCTION / DISCHARGE CONNECTIONS. MOTOR SHALL BE THERMALLY PROTECTED AND RATED FOR 1 HP, 120 VAC, SINGLE-PHASE, 60 HZ POWER SUPPLY. THE MOTOR SHALL HAVE A BUILT-IN VARIABLE SPEED CONVERTER SO THE DESIRED OUTPUT PRESSURE IS MET AT DIFFERING DOWNSTREAM WATER DEMAND WITHOUT THE NEED FOR A PRESSURIZED STORAGE VESSEL AND PRESSURE SWITCH.

ALL LOW PRESSURE LINES (75 PSIG OR LESS) SHALL BE CONSTRUCTED OF SCH 80 PVC PIPE AND FITTINGS. RO PRODUCT AND CONCENTRATE REJECT LINES FROM EACH MEMBRANE HOUSING SHALL BE REINFORCED PVC TUBING. ALL HIGH PRESSURE LINES (75 PSIG AND HIGHER) SHALL BE CONSTRUCTED OF BRASS PIPE AND FITTINGS. THREADED AND COMPRESSION TYPE HIGH PRESSURE FITTINGS ARE ACCEPTABLE. A UNION DISCONNECT FITTING SHALL BE PROVIDED FOR EASY PUMP REMOVAL WITHOUT COMPLETE DISASSEMBLY OF THE HIGH PRESSURE PIPING LINES

THE MANUFACTURER SHALL PROVIDE AN 18-MONTH MATERIALS AND WORKMANSHIP WARRANTY FROM THE DATE OF EQUIPMENT SHIPMENT. MEMBRANE ELEMENT WARRANTY IS PER THE SELECTED RO ELEMENT MANUFACTURER STANDARD WARRANTY.

ON-SITE STARTUP OR SERVICE SHALL BE MADE AVAILABLE FROM THE FACTORY OR THE LOCAL MANUFACTURER'S REPRESENTATIVE. TECHNICAL SERVICE PHONE SUPPORT AND SPARE PARTS MUST ALSO BE AVAILABLE FROM THE MANUFACTURER'S FACTORY

ELECTRICAL CONTROL PANELS AND ALL INTERCONNECTING WIRING ARE TO BE PROVIDED IN A WATERTIGHT FLEXIBLE CONDUIT. A SINGLE POINT ELECTRICAL CONNECTION FOR SINGLE-PHASE POWER SHALL BE REQUIRED. ALL FILTER MEDIA, WATER SOFTENER RESIN, AND MEMBRANE ELEMENTS SHALL BE PRE-LOADED INTO THE PRESSURE VESSELS. ALL INTERCONNECTING PIPING AND MANUAL ISOLATION/BYPASS VALVES BETWEEN EQUIPMENT SHALL BE PROVIDED. PRESSURE GAUGES AND SAMPLING VALVES TO BE SUPPLIED BEFORE AND AFTER EACH WATER TREATMENT COMPONENT. SKID IS TO BE MANUFACTURED IN SECTIONS NOT TO EXCEED 34" X 48" AND HAVE FACTORY MOUNTED UNION CONNECTIONS FOR ALL PIPING. THE ENTIRE SYSTEM SHALL BE FACTORY HYDRO-TESTED.

> RM. 3B-110 3RD FLR. LEVEL RM. 2B-124D

RM. 3B-110 DCW SUPPLY AND RISER **DEDUCT ALTERNATE #3**

CODED NOTES

- NEW R.O. SYSTEM ASSEMBLY ON SKIDS.
- NEW R.O. WATER STORAGE TANK. PROVIDE HOUSEKEEPING PAD.
- NEW 24"DIA. X 40"H R.O. DISCHARGE HOLDING TANK W/ 2" DRAN PIPE TO FUNNEL ON FLOOR DRAIN - PROVIDE FUNNEL. [USE SOFTENER MFG. BRINE TANK FOR HOLDING TANK.]
- NEW 1" DCW SUPPLY W/ RPBP TO R.O. ASSEMBLY. MAKE FINAL CONN. EXTEND RPBP RELIEF DRAIN TO FLOOR DRAIN.
- CONNECT 1" DRAIN PIPING TO R.O. ASSEMBLY AND EXTEND INTO HOLDING TANK WITH WATER-TIGHT RUBBER SEAL.
- INSULATED 1" DCW LINE FROM 2ND FLOOR CEILING SPACE. SLEEVE AND SEAL AT WALL AND FLOOR PENETRATIONS.
- CONNECT NEW 1" DCW LINE W/ ISOLATION VALVE INTO EXISTING 2" DCW IN 2ND FLOOR CEILING SPACE. (RO UNIT IN RM. #3A-111A)
- EXTEND 3/8" R.O. PERMEATE SUPPLY LINE FROM R.O. UNIT TO R.O. WATER STORAGE
- EXTEND CABLE FROM FLOAT CONTROL AT R.O. WATER STORAGE TANK TO PROPER GFI BOX; MAKE FINAL CONNECTIONS.
- 1" R.O. WATER PIPING FROM R.O. PUMP TO STEAM GENERATOR. MAKE ALL FINAL CONNECTIONS.
- 1" R.O. WATER PIPING FROM R.O. WATER STORAGE TANK TO R.O. PUMP SUCTION INLET. MAKE ALL FINAL CONNECTIONS.

3B-110.

- STEAM GENERATOR BY HVAC CONTRACTOR.
- CONNECT 1" DRAIN PIPING TO SOFTENER ASSEMBLY AND EXTEND INTO HOLDING TANK WITH WATER-TIGHT RUBBER SEAL
- 1" SOFTENED WATER PIPING FROM WATER SOFTENER ASSEMBLY TO R.O. UNIT. MAKE FINAL CONNECTIONS.
- CONNECT NEW 3" SAN. DRAIN PIPING TO EXIST. 4" SAN. DRAIN ABOVE DROP-IN CEILING IN RM. 1B-119. EXTEND INTO 1ST FLOOR POLICE
- MAKE OFFSET OF 3" SAN. STACK ABOVE 2ND FLOOR CEILING LEVEL AND THROUGH WALL INTO ROOM 2B-107 CEILING SPACE. PROVIDE PIPING AND TRAP FOR FLOOR DRAIN IN RM.
- 1-1/2" SAN. VENT UP AND THROUGH WALL INTO RM. 3B-110.
- CONNECT NEW 1-1/2" SAN. VENT INTO EXISTING 1-1/2" PVC SAN. VENT.
- CONNECT NEW 1" DCW LINE W/ ISOLATION VALVE INTO EXISTING 1-1/2" DCW IN 2ND FLOOR CEILING SPACE OF RM. 2B-124D. (RO UNIT IN RM. 3B-110). EXTEND 1-1/2" CAPPED PIPING FOR FUTURE CONNECTION FOR

THE ANCILLARY CARE PROJECT #517-316.

- FLOOR DRAIN TYPE #FD-M W/ FUNNEL.
- PROVIDE TRAP PRIMER AND DISCHARGE INTO FLOOR DRAIN ABOVE THE STRAINER. SEE NOTE #23.
- PROVIDE 1/2" DCW BRANCH W/ ISOLATION VALVE TO TRAP PRIMER. SEE NOTE #22.
- INSTALL 3" DRAIN STACK THROUGH 2ND FLOOR AND UP INTO 2ND FLOOR CEILING LEVEL.
 - EXTEND 3" CAPPED PIPING FOR FUTURE CONNECTION IN 1ST FLOOR CEILING FOR THE ANCILLARY CARE PROJECT #517-316.
 - EXTEND 1-1/2" CAPPED PIPING FOR FUTURE CONNECTION IN 3RD FLOOR CEILING SPACE FOR THE ANCILLARY CARE PROJECT #517-316.



Tel 614.798.1515

Proiect Number: 11025

3RD FLR. LEVEL

2ND FLR.

RM. 2B-124D

WALL SLEEVE (TYP)

Collaborative Design, Ltd 2727 Tuller Parkway, Suite Dublin, Ohio 4 3 0 1

W.E. MONKS & CO. SHAWN M. MILLS

RM. 3B-110 DCW SUPPLY AND RISER

3RD FLR. LEVEL

RM. 2B-124D

BASE BID

APPROVED: SAFETY MANAGER APPROVED: CHIEF, FACILITIES MANAGEMENT SERVICE LINE JUSTIN GREENE CLAYTON HELMS, CHFM APPROVED: INFECTION CONTROL APPROVED: ASSOCIATE DIRECTOR for PATIENT CARE SERVICES/EXECUTIVE NURSE DEBRA LEGG, RN, MSN APPROVED: APPROVED: SERVICE LINE CHIEF

KARIN L. McGRAW, MSN, FACHE APPROVED: ASSOCIATE DIRECTOR BRIAN NIMMO, MS APPROVED: CHIEF OF STAFF

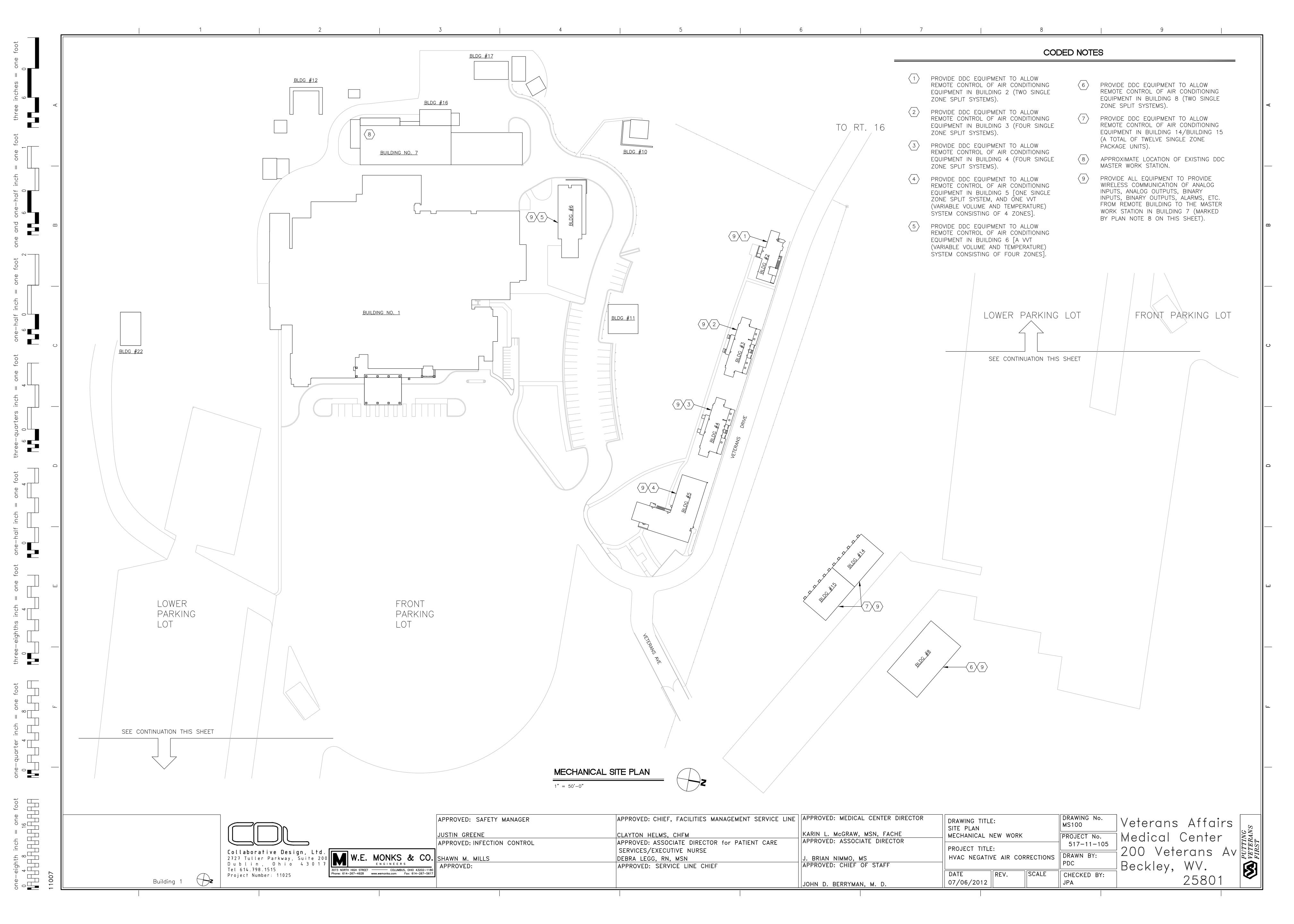
JOHN D. BERRYMAN, M. D.

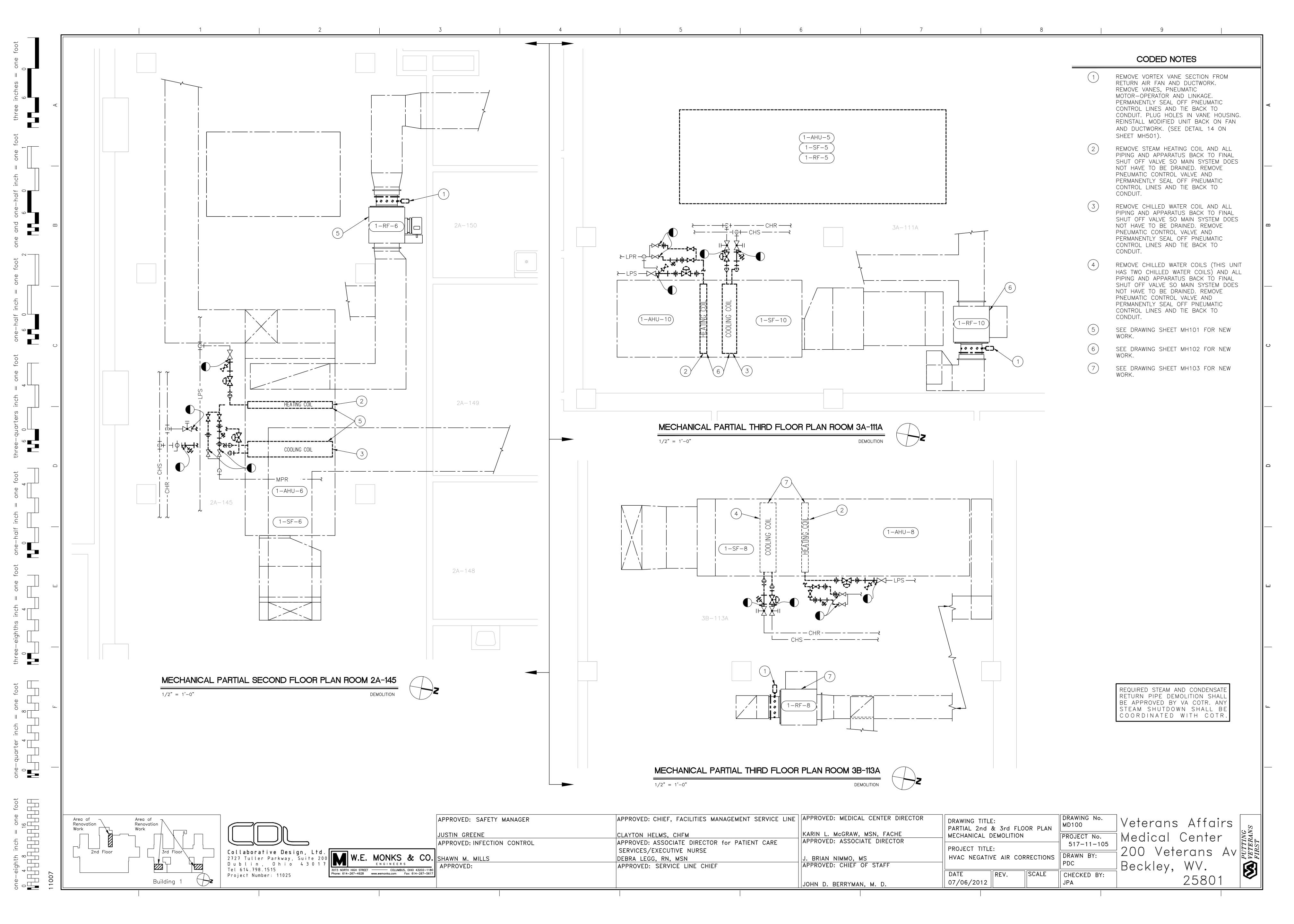
APPROVED: MEDICAL CENTER DIRECTOR

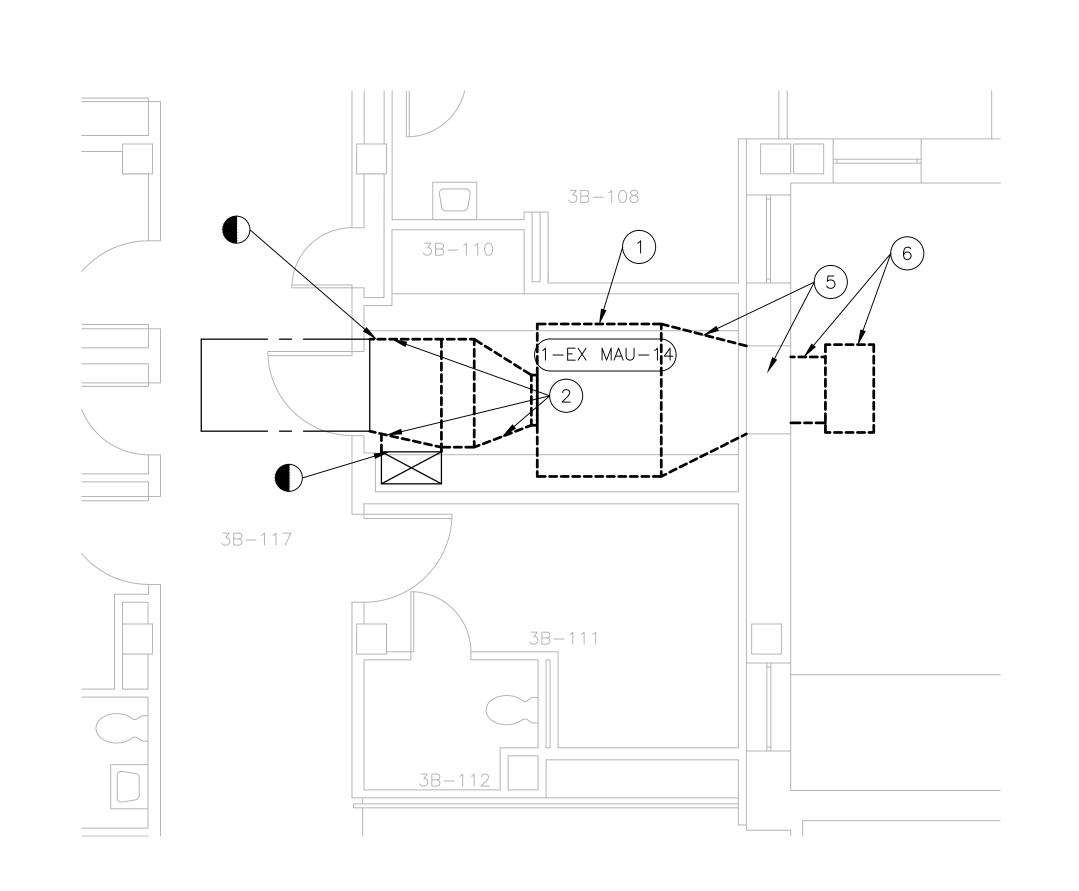
DETAILS

DRAWING No DRAWING TITLE: PL500 **PLUMBING** PROJECT No. 517-11-105 PROJECT TITLE: DRAWN BY: HVAC NEGATIVE AIR CORRECTIONS JRC SCALE DATE REV. CHECKED BY: 07/06/2012 JPA

Veterans Affairs Medical 200 Veterans WV.Beckley, 2580







MECHANICAL PARTIAL THIRD FLOOR PLAN ROOM 3B-110

1/2" = 1'-0"

one-eighth inch = one foot 0.4.8 16

DUCT WORK DEMOLITION





3A - 111

3A - 108

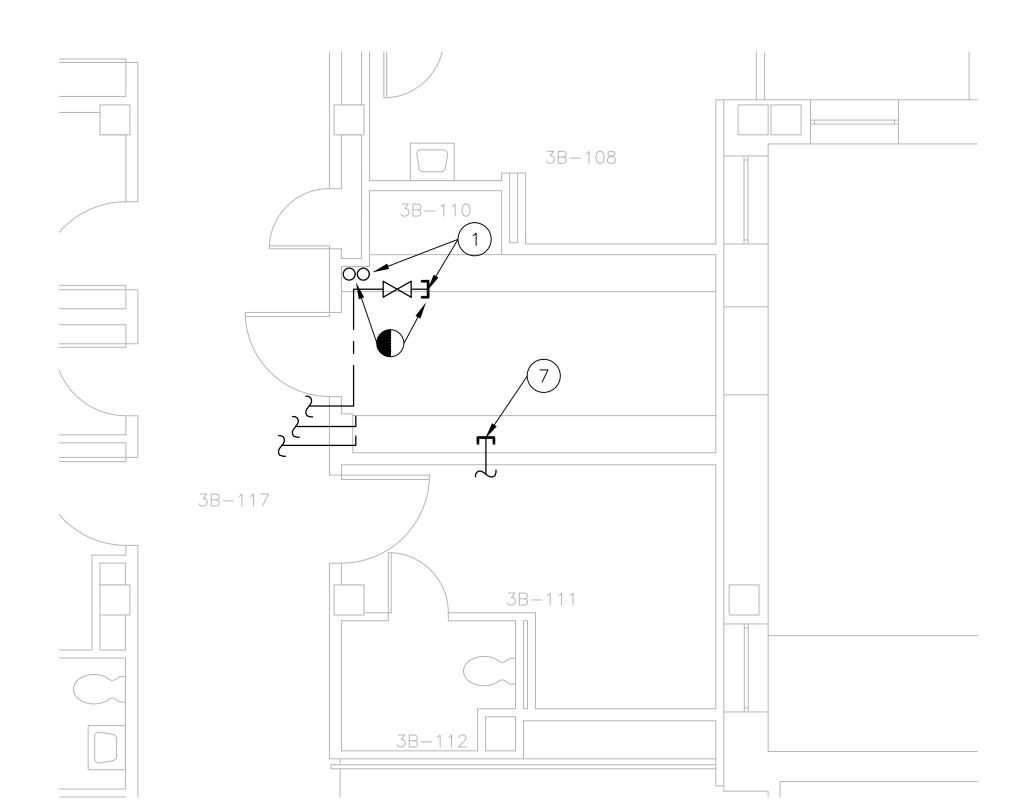
1/2" = 1'-0"



3A-113



3A-108



MECHANICAL PARTIAL THIRD FLOOR PLAN ROOM 3B-110

PIPING DEMOLITION 1/2" = 1'-0"





APPROVED: SAFETY MANAGER	APPROVED: CHIEF, FACILITIES MANAGEMENT SERVICE LINE
JUSTIN GREENE	CLAYTON HELMS, CHFM
APPROVED: INFECTION CONTROL	APPROVED: ASSOCIATE DIRECTOR for PATIENT CARE

_			
	APPROVED: MEDICAL CENTER DIRECTOR	DRAWING TITLE: PARTIAL THIRD FLOOR PLAN	DRAWING No. MD101
	KARIN L. McGRAW, MSN, FACHE APPROVED: ASSOCIATE DIRECTOR	MECHANICAL DEMOLITION	PROJECT No.
	ATTROVED. ASSOCIATE BIRECTOR	PROJECT TITLE:	517-11-105
	J. BRIAN NIMMO, MS	HVAC NEGATIVE AIR CORRECTIONS	DRAWN BY:
	APPROVED: CHIEF OF STAFF		PDC
		DATE REV. SCALE	CHECKED BY:
	JOHN D. BERRYMAN, M. D.	07/06/2012	JPA

CODED NOTES

- REMOVE MAKE UP AIR UNIT COMPLETE WITH COILS. REMOVE PIPING (CHILLED WATER SUPPLY AND RETURN, STEAM, AND CONDENSATE), ACCESSORIES AND CAP OFF AT LAST SHUT OFF VALVE IN ORDER NOT TO DRAIN MAIN SYSTEM. SEE DRAWING SHEETS MH102 AND MH103 FOR RECONNECTION OF PIPING TO NEW MAKE UP AIR UNITS.
- REMOVE SUPPLY AIR DUCTS BACK TO INDICATED POINT OF DEMOLITION.
- REMOVE THIS MAIN BRANCH SUPPLY AIR DUCT AND BRANCHES BACK TO CONNECTION AT FAN COIL UNITS.
- REMOVE INTAKE AIR DUCT AND LOUVER. INFILL LOUVER OPENING TO MATCH EXISTING WALL CONDITIONS.
- REMOVE INTAKE AIR DUCT. THE EXISTING WALL OPENING WILL BE USED WHEN INSTALLING NEW MAU-14 SEE DRAWING SHEETS MH103 AND MH105.
- REMOVE INTAKE AIR DUCT UP TO THE ROOF MOUNTED INTAKE AIR HOOD. REMOVE THE ROOF MOUNTED INTAKE HOOD. THE EXISTING ROOF OPENING WILL BE USED WHEN INSTALLING NEW MAU-14 SEE DRAWING SHEET MH105.
- EXISTING MAU-14 TO BE REMOVED (SEE PLAN NOTE 1 ON THIS SHEET). VERIFY THAT THIS IS THE VENT PIPE FROM THE STEAM SAFETY VALVE AND CAP OFF AT WALL. IF THIS PIPE GOES DIRECTLY TO THE OUTSIDE CAP OFF AT EXTERIOR POINT. IF THIS PIPE TIES INTO ANOTHER VENT, CAP OFF TEE AND PIPE AT THAT POINT OF CONNECTION.
- EXISTING MAU-15 TO BE REMOVED (SEE PLAN NOTE 1 ON THIS SHEET). LOCATE THE VENT PIPE FROM THE STEAM SAFETY VALVE AND CAP OFF AT WALL. IF THIS PIPE GOES DIRECTLY TO THE OUTSIDE CAP OFF AT EXTERIOR POINT. IF THIS PIPE TIES INTO ANOTHER VENT, CAP OFF TEE AND PIPE AT THAT POINT OF CONNECTION.

REQUIRED STEAM AND CONDENSATE RETURN PIPE DEMOLITION SHALL BE APPROVED BY VA COTR. ANY STEAM SHUTDOWN SHALL BE COORDINATED WITH COTR.

APPF Renovation KARI APPF Collaborative Design, Ltd. 2727 Tuller Parkway, Suite 200 Dublin, Ohio 43017 Tel 614.798.1515 | SERVICES/EXECUTIVE NURSE W.E. MONKS & CO. SHAWN M. MILLS
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